AMENDMENTS TO THE CLAIMS

Upon entry of this amendment, the following listing of claims will replace all prior versions and listings of claims in the pending application.

Please cancel claims 4, 7, 8, 9, 11, 12, 22, 25, 30, 31, 39, 41-43, 48, 49, and 53 without prejudice or disclaimer of the subject matter therein.

Please amend the pending claims as follows:

1. (Currently Amended) In at least one electronic device, a method of communicating between a first computer aided design (CAD) application and a second CAD application, comprising:

storing native data and a sub-set of native data, the sub-set of native data derived by a first library of routines;

providing a plug-in comprising a second library of routines having an application program interface (API) and being accessible by the second CAD application; and

the plug-in conveying the sub-set of native data to second CAD application upon the second CAD application calling a second library of executable routines to request the native data and the sub-set of native data using the API, wherein the second CAD application utilizes a third library of executable routines to recreate items based on the native data and a sub-set of native data of the first CAD application.

2. (Original) The method of claim 1, wherein storing comprises placing the native data and the sub-set of native data on a recordable medium.

3. (Original) The method of claim 1, wherein the native data comprises data forming a model of an object in the first CAD application.

4. (Canceled)

5. (Currently Amended) The method of claim 4_1, wherein the first library of executable routines is embedded within the first CAD program.

6. (Currently Amended) The method of claim 4_1, wherein the first library of executable routines is a component accessible by the first CAD program.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Original) The method of claim 1, further comprising generating the native data as an object is modeled in the first CAD application.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The method of claim 12_1, wherein the third library of executable routines is embedded within the second CAD application.

14. (Currently Amended) The method of claim 12_1, wherein the third library of executable routines is a component accessible by the second CAD application.

15. (Original) The method of claim 1, further comprising the first CAD application notifying the second CAD application about updates to the sub-set of native data.

16. (Original) The method of claim 1, further comprising the first CAD application receiving a notification of a modification of the object from the second CAD application.

17. (Original) The method of claim 1, further comprising at least one of the first CAD application and the second CAD application communicating with an analysis application.

18. (Original) The method of claim 1, further comprising at least one of the first CAD application and the second CAD application communicating with a manufacturing application.

19. (Currently Amended) In at least one electronic device, a method of communicating between a first CAD application and a second CAD application, comprising:

    providing a model of an object on the first CAD application having a sub-set of native data derived by a first library of routines;

    utilizing a plug-in having a second library of executable routines in the second CAD application to retrieve a the sub-set of native data from the first CAD application relating to the model of the object;

    wherein the sub-set of native data enables the second CAD application to create a second model of at least a portion of the object on the second CAD application utilizing a third library of executable routines.

20. (Original) The method of claim 19, wherein native data and the sub-set of native data are stored on a recordable medium.

21. (Original) The method of claim 19, further comprising providing native data in the form of data relating to the model of the object in the first CAD application.

22. (Canceled)

23. (Currently Amended) The method of claim 22 19, wherein the first library of executable routines is embedded within the first CAD program.

24. (Currently Amended) The method of claim 22 19, wherein the first library of executable routines is a component accessible by the first CAD program.

25. (Canceled)

26. (Currently Amended) The method of claim ~~25~~19, wherein utilizing the plug-in further comprises calling the second library of executable routines to utilize an API to retrieve native data and the sub-set of native data.

27. (Original) The method of claim 26, wherein utilizing the plug-in further comprises filtering the native data to extract the sub-set of native data.

28. (Original) The method of claim 27, wherein utilizing the plug-in further comprises receiving the sub-set of native data from the first CAD application.

29. (Currently Amended) The method of claim ~~25~~19, wherein utilizing the plug-in further comprises calling the second library of executable routines to utilize an API to retrieve the sub-set of native data.

30. (Canceled)

31. (Canceled)

32. (Currently Amended) The method of claim ~~31~~19, wherein the third library of executable routines is embedded within the second CAD application.

33. (Currently Amended) The method of claim ~~31~~19, wherein the third library of executable routines is a component of the second CAD application.

34. (Currently Amended) The method of claim ~~31~~19, further comprising reading the sub-set of native data utilizing the third library of executable routines to translate the sub-set of native data and create the second model of at least a portion of the object in the second CAD application.

35. (Original) The method of claim 19, further comprising the second CAD application receiving notifications from the first CAD application about updates to the sub-set of native data.

36. (Original) The method of claim 19, wherein the sub-set of native data includes a complete history of the object in a manner enabling the second CAD application to review the history and modify the object.

37. (Original) The method of claim 19, further comprising communicating a modification of the object in the second CAD application to the first CAD application.

38. (Currently Amended) A system for modeling an object, comprising:

      a first CAD application;

      a second CAD application;

      native data and a sub-set of native data relating to an object modeled on the first CAD application stored in a first memory store, the sub-set of native data derived by a first library of executable routines;

      a plug-in having a second library of executable routines and an API accessible by the second CAD application and suitable for accessing and retrieving the sub-set of native data to enable the second CAD application to create a second model of at least a portion of the object modeled on the first CAD application using a third library of executable routines without the first CAD application having to export a file containing the object.

39. (Canceled)

40. (Currently Amended) The system of claim 3938, wherein the first library of executable routines is one of embedded within the first CAD application and a component accessible by the first CAD application.

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Currently Amended) The system of claim 4338, wherein the third library of executable routines is one of embedded within the second CAD application and a component accessible by the second CAD application.

45. (Currently Amended) The system of claim 4338, wherein the third library of executable routines is suitable for reading the sub-set of native data utilizing the third library of executable routines to translate the sub-set of native data and create the second model of at least a portion of the object in the second CAD application.

46. (Currently Amended) In at least one electronic device, a method of communicating between a first CAD application and a second CAD application, comprising:

       providing a first library of executable routines accessible by the first CAD application;

       generating native data as an object is modeled in the first CAD application;

       creating a sub-set of native data utilizing the first library of executable routines;

       storing the native data and the sub-set of native data;

       providing a second library of executable routines in the form of a plug-in having an application program interface (API) and being accessible by the second CAD application; and

       calling the second library of executable routines to utilize the API to retrieve the native data, filter the native data to extract the sub-set of native data, and convey the sub-set of native data to the second CAD application; and

       calling a third library of executable routines to create model items based on the native data and a sub-set of native data of the first CAD application.

47. (Currently Amended) The method of claim 46, further comprising providing a wherein the third library of executable routines is accessible by the second CAD application.

48. (Canceled)

49. (Canceled)

50. (Currently Amended) A computer readable medium containing software suitable for executing a method of communicating between a first computer aided design (CAD) application and a second CAD application, the method comprising:

storing native data and a sub-set of native data, the sub-set of native data derived by a first library of routines;

providing a plug-in having an application program interface (API) and being accessible by the second CAD application; and

the plug-in conveying the sub-set of native data to the second CAD application upon the second CAD application calling the plug-in to request the native data and the sub-set of native data using the API, wherein the second CAD application utilizes a third library of executable routines to recreate items based on the native data and a sub-set of native data of the first CAD application.

51. (Currently Amended) A computer readable medium containing software suitable for executing a method of communicating between a first CAD application and a second CAD application, the method comprising:

providing a model of an object on the first CAD application having a sub-set of native data derived by a first library of routines;

utilizing a plug-in in the second CAD application to retrieve a the sub-set of native data from the first CAD application relating to the model of the object;

wherein the sub-set of native data enables the second CAD application to create a second model of at least a portion of the object on the second CAD application utilizing a third library of executable routines.

52. (Currently Amended) A computer readable medium containing software suitable for executing a method of communicating between a first CAD application and a second CAD application, the method comprising:

providing a first library of executable routines accessible by the first CAD application;

generating native data as an object is modeled in the first CAD application;

creating a sub-set of native data utilizing the first library of executable routines;

storing the native data and the sub-set of native data;

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providing a second library of executable routines in the form of a plug-in having an application program interface (API) and being accessible by the second CAD application; ~~and~~

calling the second library of executable routines to utilize the API to retrieve the native data, filter the native data to extract the sub-set of native data, and convey the sub-set of native data to the second CAD application; and

calling a third library of executable routines to create model items based on the native data and a sub-set of native data of the first CAD application.

53. (Canceled)